

01/18/02

JC945 U.S. PTO

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PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. KSC-12209-1

First Inventor Cooper et al.

Title Apparatus and Method for Treating Pollutants in a Gas Using Hydrogen Peroxide and UV Light

Express Mail Label No. ET346435466US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 22]  
(preferred arrangement set forth below)
- Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 3]
5. Oath or Declaration [Total Pages ]
- a. ☐ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)
- i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. ☐ Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ paper
- c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement of Power of Attorney (when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☒ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☒ Other: Cover Letter

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No. \_\_\_\_\_

Prior application information.

Examiner \_\_\_\_\_

Group Art Unit \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

Name

Randall M. Heald, Assistant Chief Counsel/Patent Counsel

Address

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Name (Print/Type)

RANDALL M. HEALD

Registration No. (Attorney/Agent)

28,561

Signature

Randall Heald

Date

01/18/02

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.



National  
Aeronautics and  
Space  
Administration

Patent Application

KSC-12209-1  
(NASA Case No.)

**Letter Transmitting Patent Application**  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

THE COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, DC 20231

Sir:

Transmitted herewith for filing is the Patent Application of:

Applicant: Charles David Cooper et al.

Inventor(s): Charles David Cooper and Christian Anthony Clausen

Entitled: Apparatus and Method for Treating Pollutants in a Gas Using Hydrogen Peroxide and UV Light

Enclosed are:

- ☒ Specification and claims
  - ☐ Declaration
  - ☐ Assignment of the invention to the National Aeronautics and Space Administration.
  - ☐ License of the invention to the National Aeronautics and Space Administration.
  - ☐ Application Data Sheet
  - ☐ Preliminary Amendment
  - ☒ Information Disclosure Statement
  - ☒ Nonpublication Request and Certification (PTO/SB/35 or equivalent)
  - ☐ International application under the PCT. (See PCT/RO/101,XII checklist.)
- ☒ 3 sheets of drawing.  
☐ Power of Attorney

The fee has been calculated as shown below:

CLAIMS FILED					
FOR (1)	NUMBER		RATE (4)	FEE (5)	
	FILED (2)	EXTRA (3)			
TOTAL CLAIMS	20	= 21	x 18.0 =	\$378.00	
INDEPENDENT CLAIMS	3	= 2	x 84.0 =	\$168.00	
BASIC FEE (Minimum amount required)				\$740.00	
TOTAL FILING FEE				\$1,286.00	

Please charge our Deposit Account No. 14-0116 in the amount shown as the total filing fee. The Commissioner is hereby authorized to charge an additional fee which may be required to effect the filing of this application under 37 CFR 1.16, or credit any overpayment to Deposit Account No. 14-0116.

Jan 18, 2002  
(Date)

Randall Hield  
(Attorney of Record) (Reg. No.)

NOTE: This form is to be used when filing a new or original application.

NASA FORM 1556 DEC 2000 PREVIOUS EDITIONS ARE OBSOLETE.

PTO/SB/35 (11-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

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**NONPUBLICATION REQUEST  
UNDER  
35 U.S.C. 122(b)(2)(B)(i)**

First Named Inventor Charles David Cooper

Title Apparatus and Method for Treating  
Pollutants in a Gas Using Hydrogen Peroxide and  
UV Light

Atty Docket Number KSC-12209-1

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

01/18/02

Date



Signature

Randall M. Heald, Reg. No. 28,561

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

Burden Hour Statement: This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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NASA Case No. KSC-12209-1

Patent Application

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Charles David Cooper et al. )  
)  
)  
Serial No.: Unknown )  
)  
Filed: Herewith )  
)  
Title: Apparatus and Method for )  
Treating Pollutants in a Gas Using )  
Hydrogen Peroxide and UV Light )

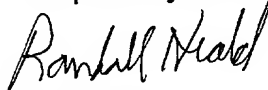
LETTER

Assistant Commissioner of Patents  
Washington, D.C. 20231

Sir:

The enclosed application is being filed in accordance with 37 CFR 1.53 and 37 CFR 1.10 in order to obtain a filing date of **January 18, 2002**. The application is being sent by EXPRESS MAIL "Post Office to Addressee" under Certificate ET346435466US.

Respectfully submitted,



Randall M. Heald, Reg. No. 28,561  
Patent Counsel

Mailing Address:

Patent Counsel  
Office of Chief Counsel  
NASA, John F. Kennedy Space Center  
Mail Code: CC-A  
Kennedy Space Center, Florida 32899  
Telephone (407) 867-7214

I hereby certify that the attached application "Apparatus and Method for Treating Pollutants in a Gas Using Hydrogen Peroxide and UV Light" is being deposited with the United States Postal Service on **January 18, 2002**, as Express Mail "Post Office to Addressee" under Certificate No. ET346435466US in an envelope addressed to: Assistant Commissioner for Patents, U.S. Patent & Trademark Office, Box Patent Application, Washington, D.C. 20231.



Carol Anne Dunn  
Paralegal Specialist

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